MID-DECEMBER 1955

\$3.00

Buyers' Guide

VIATION WEEK

.

AIRCRAFT

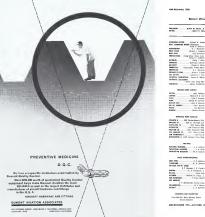
MISSILES

AVIONICS

SUPPORTING EQUIPMENT

NUCLEAR SYSTEMS

AIRLINE & AIRPORT EQUIPMENT



AVIATION WEEK

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CENTER Below I Nov. 1955-56 BUYERS' GUIDE Decretto souts surred and strains are MARROOD STREET STREET W. Joseph Sales Near 513 Sillian Mark for 1456. 9587 Baylon 510 Sillian in 18 Marelia 8205 Tendes Insvets for Program Tendesso. Logic Grover Sery Processment Integ See New York MAJERIAL AND ABOUND BOYERS SECTION SHOWING SHOW I AND Deportment of the for force Deportment of the Mony ED THE BEN BOY head Agrecies Department of the Army Air Tromport Porcholog Committee Brosh HO9 In factories Airline and Airpari Equipment Octoberony Trade Manager present Service Garbert Streetlight: Service, Card Squipment. MANUEL BY THE PARTY SEE ADMINTORNY IMPOR 100 to Muligan Aus MANAGEMENT MEGS The 1955-56 deletes Week Daven' Golde are counted 100 DECEMBER # 100 DECEMBER 100 with the compression of above 3,000 representations of the PAGESTAGE 4 1157 Inches Charles

> AMAZION WHILE * HIS DECEMBER 1985 * Well ES, No. 21 Menho: AET and AEC

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screen . . C & Rendell RETERES AND ADDRESS OF

MID DICEMBER 1955-AVENTON WELL BUTTES GUIDE

For New Weapon Systems . . . Engineer Holds Buying and Selling Key

The 1955-56 deintion Week Rayers' Guide is exerced to been more with the revelationery changes forced upon the aircraft industry by the introduction of the scenper

The key men in the luving and selling of nespons now is the engineer. To his maker function as researcher, developer or desirner, he has added two roles of equal impertoner: he is his own selection and his At the same time, the traditional tasks of salesmen and buyers have been extended to include new expositing functions in ed-

vising and aiding envincers in the many Forhing together within the organisa tional framework of the meapon system, the sales, brying and design teams have achieved a technical unity that was impossible under the original scheme of separate depart-

This first Autation Week Buvers' Guide year planned to help those teams in their major took of strengthening the cir names of the free world during the ape of peril. Two major factors have placed responsibility

long of the engineers · Technical completely of new systems demands that they be sald by engineers to engineers They have uncessfood knowledge occasion to buy or sell a computer-controlled system, a rocket motor injection head, or a magnetic

smelifier.

. Time ean be sained and the nossibility of may undentuselyse avoided by the engocening perchase or sales of enumeered systems, rather than by following the old routes with salesmen or reachsons seems as middlemen But while the recener has the desire knowhow, he doesn't know where to so or whom

to see, the opposite is true for the salesman or In extreme cases these neonle don't even know-let alone understand-each others' problens. For those reasons, this Buyers' Guide is diand at such its treated separately in a section of the own. Lintrags are similar to those in Section A, but are applicable specifically to missiles. Soccultural respective community such as missis-· Section G. Avionics. The 101-fold prowth of this new industry over the past Effect years is reflected in the galaxy of specialized equipment

coded note there maker groups of material the first is a series of articles on the technisms of

doing business with the military services and the

serlines, the arroad is a detailed listing of the

needs who do the buying for the military serv-

sees and the artises, the third is a cornershm-

ave lating of the named of manufactured stems

that make on the shore intercenter, the colorful

One of the many new features of the Assa-

vices Week Bevers' Coule is the division of

manufactured products listing into six separate

sence is finding any particular item. The six

· Section A: Averaft. The products that are

espalled other complete or as more systems in

an amplone are listed within this section. Power-

classis, major components, such complete units

in Section A. But the section does not include

fastrooms, hardware, new materials and other

items that are common to amplanes, missiles.

· Section B. Musiles. During the past decade,

the saided missile has grown from an engineer-

ing any to an operational field wrapper system.

sections include

This has been done for maximum conver-

welver and the black-and-white movie.

breeches are also listed, but common support nems are not recluded how

letters to the section. The items include all the common narts-tubes, transactors, switches and theostate-that are the building blocks of the complex equipments. Listed also are the large

· Section D. Supporture Equipment. In the dereferences of a marrow outcom, one of the fact brild or buy a lot more than an arrolanc or a mostic. He may have to supply actomotive conferment or special trainers or teach a seminar count. The increasing importance of the task of tipe these items apart to a extraory of their care These are the " short and shirt and scaling. was ... " items, from office furniture to century

rivets, from machine tools to ment and lacemen fastnerst, soor materials and services that an into supporting functions

. Section E: Nuclear Systems. The aircraft incorner in the standard. With almost owns major. sizzuft company conduction studies of nuclear power, the pest few wars should see the couplepropulsion. This section lists not only certain tungible items related to nuclear systems. but also, in proposition of our of the sunor mely loss factor the industry—the scale use and Gov-

crument centers of training and education in has fix outstripped almost every prediction ever sell transportation of people or curen, the manyfactorers of large fixed flows blo beneaus and rusways and lighting systems, and the services of

The major aim of efficient borne is the same as that of efficient engineering to solve the and neoduction stems. During the next few stooths, these characts have been made by the military as an atternal to out excelle of the ized and redirected their purchasing efforts to If you we despoint . . . You will find the names of perspective you care require in six sections of product

If you are selling . . . You will find the names of the butters of welfters remove and the commercial unlines listed between pages 15 and 26. You vall find manufactures letted in its orm-

You will find many new rooms of moneys. true emerkers and subcontractors ocupan the six product leting rectues. Advertises in the 1985.56 Assisting Week Bences' Guide are Isted in hold free countril

If you are beging . . .

letters.

for a prospective supplier to do business with · Reconstructs are being shared with industry In tackling the knotty problem of how best to buy research and development, USAF's Air Rosearch and Development Command has set in metion a new also, for abasing its thoughts on future services needs with industry. In effect, ARDG is trading its lone-screet studies of future requirements for time assed in the development

developed special techniques for aiding their prospective subcontractors and arreaders. Among these is Boome whose transporters for subcorntractors is described just at the start of Section A. Airline buying follows a different pattern for each different operator. The pascedone of four of the major engines serons this courte, are de-The arresaft industry represents a \$10-billion serges) market for the next two or there years. It officer a representative role for almost many imperiunble manufactured stem or professed sension The Assayon Wass Boson' Gode a the first new approach to understanding and reach-

me that market.

BUSINESS FOREGAST

Sales Near \$10 Billion Mark for 1956

Dr Robert Hots

The elected industry will continue close to its most over neak levels during 1956. Outlook is for a stable sullitary production of eirframes, gas turbine engines, missiles and colonic year at about the 1955 level with an increase in commercial production of transport sirerest for the airlines and executive type planes for the growing business flying

Profits for 1955 will remain close to the 1954 level for the industry as a schole but with larger discrepancies between the net incomes of individual firms as results of the nese military policy of selective buying become more recommend. The reaft plature for some firms will be clouded by effects of the Representation Act. The Representation Board has nearly completed its redetermino tions of 1952 profits to the atrenaty industry and will soon start checking the incremed profits of 1953.

The industry will place heavy emphasis on restarch and development activity as the convictors in melitary business for technological horalegreater. Much of the industry's control exceeds. tures will be for new development families inchadian experionic wind turnels, gos turbine carine laboratories, and mostle test facilities. Military customers-the Air Force, Navy and Armon, and Ill constitutes to take the Insecut effect of the stereoft industry entrop during 1966. The three services have about \$25 hillion available in funds. appropriated by Congress but not yet expended, for Military sales will exertisce at about the 8.5 billion level of the 1954-S5 period during 1956 line and executive alone market will run eless to

There factors are the perceival inflaences in the

1. The resid reserves being made by the Resident in development of modern serial responsand atomic accument. There is no argument now in Pantages. White House or Congress that the Russian rate of progress during the next three very in these fields had outstripped all ceraccelerating the page of our development effort and enlasting the scope of accumutical research. In addition, anothering of our most advanced personness such as the appersonne Lockberd F-104 fighter, the McDougell F-101 lang-cause inter-

ceptor and the Boeing B-52 strategic hundre will he accelerated during 1956. 2. The transfly increasing page of accurage webnalogy, Trevor Gordner, Assistant Secretary of the Air Force for Research and Davidsonner on country said:

"We are trying to make more technical proswe have in the whole corriers fifty where of more gred fight." This regaid technological progress induces a

exitens and requires a quick replacement factor. S. The recousity of the world airlines to reequip their fleets with gas turbine powered transnorty. During the last quarter of 1955 nearly \$1 billing is orders for turbourse and turbout trans-Entitionent recobants for airlines will reach an all.

time neak during the next fave years as sigling nanomers and cargo volume sour to now levels. stimulated by the high efficiency, low cost opera-Plant expansion will continue at a modest level confined principelly to new guided missile familitim located to the Midwest and Southwest and the

facilities. The collings existing market for the next firm

Correir and Martin hallistic missiles, MIR-RECEIVER THIS -- AVENTON WITH MATERS GARDS

configuration the Air Force. · Av defence yestem. The poublest of building as

edemate air defense powers for the North American continent assault attack by supersonic aucraft and guided missiles poses tromesdoes techrical readarties and locative realities. Ditle · Air logation system. The supersonic pace of establishment of an air legatics system that new moone all high cost itsees costs as let applicar and operation units. This means development of new true ict transports and widespread application of · Nuclear power. Development of perclear powered sireraft is a top priority military program. large airframe brilders. It will require around technical skills of an entirely new wartery. satellites. Two review recommend and already under next to arradice resultles reaching too speeds of Mach 20 with a range of \$,000 miles. A program. to workson the first mean extellibra for largebone

is 1987 has also horse recurrent.

The suided missile business will may during 1056 testion 91 hillion horal for the first time as one duction and operational one while a second eracistion of more couples minifes energy into the advanced development stone Defendan crissiles each as the Douglas Nike, Correle Terrier Subserve offences misules such as the Daugha Honor John, Firestone Corporal, Vogelst Rorofus and Martin Mataday one also in operational use For offences served armament the Husben Falcon

and Sperry Sparrors are in production. Next gracuation of missiles includes more anakisticated accepted such as the Borine Remove. defension missile soutces: the Facebald Petrol. autisticearine missile: the Northrop Spark and North American Navaho, both intercontinental

The market for commercial aircraft will boom ducing the next few years due to increasing demond for suffice transports and executive type percent airliners is estimated at about 50 billion. Board air traffe and equipment demands may excond current forecasts. Business fiving is a steadily \$900,000 write range on down to \$15,000 fearplace planes but also for avious conjument, maintenance and special equipment. Business fiving hell of about \$500 million.

Development of the military air defense system and air logistics system combined with the heavy erouth of sixting and humans traffic volume in dietaline development of a new foderal electronic sirveys system to headle this roundly increasing space in all kinds of weather. Person stormers call for expenditure of about \$500 million on electronic ground congresses for this system during the next for years with a corresponding amount received for exceluse of airborne equipment by The helicopter market will grow slowly with the halk of sales still being cultury. Mater growth

in the transport helicopter field of commuter and interarban service is still awaring the appearance of the 35-40 passenger twin cortine type believates. MERCET CONSTRUCTION

civil airrorts formetees the model to accomplish set appeads and the high traffic volume already in state will more confirmed blabilities settings to this field. Military airport construction will contime close to the \$1 billing seggal level of the next year and rivil airport building will rep close to \$150 million remarks for the and few years with an increasing tempo of construction likely by

195B. During the next two years axiation will register in laurest growth in the commercial fields while maintaining the solid hasidor of military hasiness that has expended its production expecity to the largest in history.

USAF Buying \$10 Billion in 18 Months

The United States Are Force is the world's hiscost business, which · It has assets of \$50 billion, or \$12 billion more than the combined assets of the 24 happest corporations in America. . It have more than a mallon senante stone each year. For these itums, it spends more meany than is laid out for all kinds of material and

. It will take delivery on \$10 billion of sepolics and excepencet discour the pest 15 months Parchages street for most of this restroid is the Air Material Corn. Ohio. AMC routesh souds 45 per cent of USAF's seets, or about \$30 bil-Jan. This is 50 billion uses than the combined sucts of the Metrosolites.

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With only two exceptions, sexual headquarter, seven Air Force Depote and Honiquarters, AMD, Buth pendent when an opportunity appears

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ARDC Trades Secrets for Progress

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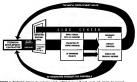
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Tradition and Logic Govern

Navy Procurement of Air Items

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BUREAU OF APROVACTORS CONTRACTS DAVISOR PCOS, MANNATO PLANNING STATES

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MID-DOCIMBER 1955-AVEATION WEEK BUTTED GUIDE

Governing Buying of Military Items managers peer which is redeter Our of the more occumulation of (a) When recremes or decremes in 4) hunflever botancel cost the pegatator is the selection of the 60) Dafes specificances personer are markele When a contractor down to (b) Mest costly type of contract is When sound one crimeter C Mustaces D. Dandyschees the recentive even the contractor to the Fermits food price contracting 25-2. ComNo-Fee (a) Legally at as not a satisfactors conceptors on first negligit per-(r) Coveragest sesses part of (b) Addressed administratory peobpicture costs. fel. When it is newweble to est-(a) Price now cachole recoming to A TWX or letter form that ute will be based on a camber of scenario Personal and methods Hall CostPinsEpotEcc the contractor's production and out on- 1-2 A. Incontive Fixed Price resonates other diseas by refer-A Explosition (a) Nazelica er servicia sus fire agreed, the availability of componentse (i) Sandin or Sembed at a tal Ferrors fixed once evel-setting C Advertiges Pleadings For Contracts (a) When prompt contracted on ing scale of profit which vanis fill When it is upseciable to ext-(x) Supplies or services are flar no Up cetal the type of rode colling page stated in the contract (a) Additional administrators work 10 Research and development more time to Lapp costs low letter of retent in com-orted into (ii) When production is special point of sudstermination and stover a whitevely law period. Military Sales: Where to Go, Whom to See (c) When target costs one he ev-(c) Mass mells and deficult to toblobed invitally or at un costs DEPARTMENT OF THE AIR Monteness stood sade assessed and FORCE (4) When rememble apportunities for our reduction through one When remonable appearon-Sentence As about Council Wage From-A Explanation (a) Supplies not formshod at a (a) Not account for contractor to rachele guessive allevances for the Engagners port reduction by Home manhaned is offers a difficult of costs to complete. (d) Covenment accover "ofter in nonthing following procure. dearened to meet specific situations. (i) D. vaccing the colors, the Admetiger | Contract" since stortics profit, and the people share D Disabinetages that difference in (a) Supplies or survices are farour faculty, costnet cm be An Pers See States Dry Bob, Alle States of Personnel and Personnel to More costs and difficult to (a) Supplies on femaled at a

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Services List Nine Contract Types

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HQ AIR MATERIEL COMMAND BUYING DIVISION OF PEO-CUREMENT DIRECTORATE Aircreft Division

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Du Pont Aucoust Birich are spenisly designed and contracted to meet the might specifications of the seconds and convenient advantass for both primary and associatry structural applications.

WHY THEY ARE USED

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DU PONT AIRCRAFT BIVETS

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PONT AIRCRAFT RIVETS

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ALUMINUM ALLOY OPEN TYPE (TABLE 2) COUNTER-HEAD 7 7 002, 7 003, 514, CO4, a \$27 market

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ASSESSMENT INSULANATION WITH BUTTER GUIDS



ALUMINUM ALLOY SEALED TYPE (TABLE 3)

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MID-DECEMBER HISS-AWARTION WEEK HUTTES' GUIDE



DU PONT AIRCRAFT RIVETS



\$050 abaneaus after mosts are manufactured with unusually wide one ranges so that each size rivet can be used for a wafe. This reduces the number of senseate eters needed for most inles and samplifies stock All sizes of 505 and model rivers are

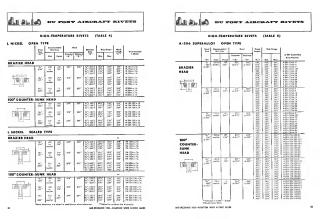
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DIVERS FOR HIGH-TEMPERATURE APPLICATIONS

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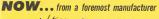












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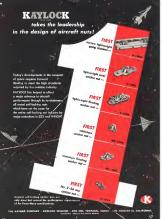
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By Durid A. Anderton

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By Philips 1 Kless

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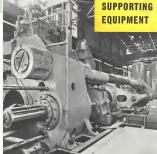
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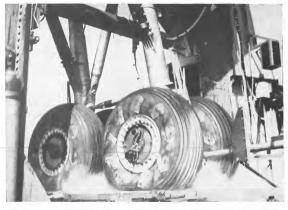
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